

INVITATION FOR BIDS (IFB) NO. 97-120
TO
FURNISH AND DELIVER
SCIENTIFIC EQUIPMENT
FOR
PACIFIC BIOMEDICAL RESEARCH CENTER (PBRC)
UNIVERSITY OF HAWAII AT MANOA
HONOLULU, HAWAII

MAY, 1997

BOARD OF REGENTS
UNIVERSITY OF HAWAII
HONOLULU, HAWAII

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IT IS THE RESPONSIBILITY OF ALL BIDDERS TO CHECK THE TABLE OF CONTENTS TO CONFIRM THAT ALL PAGES LISTED THEREIN ARE CONTAINED IN THEIR BID PACKAGE.

BIDDER'S REMINDER:

1. Bid pages 1 - 8, Signature page must have an authorized original signature; Evidence of Authority should be attached.
2. Substitutions shall be approved in advance (see BID pages).
3. Tax Clearance Certificate or OPRM Form 128, CERTIFICATION FOR TAX CLEARANCE, (see Special Provisions).

NOTICE TO BIDDERS

BID FORMS for IFB No. 97-120, Scientific Equipment, will be available from and received in the OFFICE OF PROCUREMENT, PROPERTY AND RISK MANAGEMENT, UNIVERSITY OF HAWAII, 1400 LOWER CAMPUS ROAD, ROOM 15, HONOLULU, HAWAII 96822, (an unofficial copy of the IFB is available on the Internet at <http://www.state.hi.us/bids/notice01.htm>) and must be submitted no later than 2:30 p.m., June 6, 1997, and at that time will be publicly opened.

Bids received after the time and date fixed for opening will not be considered.

Vendors located outside the Island of Oahu, Hawaii, USA, may request an official copy of the IFB by providing the vendor's name, address, contact person, telephone number, facsimile number, and an account number, billable to the receiver, for express shipment. Requests may be submitted via facsimile, (808) 956-2093. Direct all questions to Suzanne Tanaka, (808) 956-9485.

Kenneth P. Mortimer
President, University of
Hawaii and Chancellor,
University of Hawaii at Manoa

Advertised: Honolulu Advertiser

Issue of: May 23, 1997

NOTICE TO BIDDERS

OPPRM FORM 115

BUSINESS CLASSIFICATION CERTIFICATION STATEMENT

(See Official Document)

BID FORM
TO
FURNISH AND DELIVER
SCIENTIFIC EQUIPMENT

Office of Procurement, Property
and Risk Management
University of Hawaii
1400 Lower Campus Road, Room 15
Honolulu, Hawaii 96822

To Whom It May Concern:

The undersigned has carefully examined the INVITATION FOR BIDS (IFB) NO. 97-120, TO FURNISH AND DELIVER SCIENTIFIC EQUIPMENT FOR PACIFIC BIOMEDICAL RESEARCH CENTER (PBRC), UNIVERSITY OF HAWAII AT MANOA, HONOLULU, HAWAII, and offers to furnish and deliver the equipment to the Retrovirology Research Laboratory, Leahi Hospital, Atherton Building, 3rd Floor, 3675 Kilauea Avenue, Honolulu, Hawaii 96816, in strict accordance with the true intent and meaning of the Invitation for Bids (IFB) and shall complete delivery within THIRTY (30) consecutive calendar days from the date designated in the Notice to Proceed OR August 31, 1997, whichever is sooner, as follows:

BASIC BID

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Total Amount</u>
1.	CO2 Incubator, FORMA 3210, or approved alternate, as per Technical Specifications	1	\$_____

**** SUBSTITUTIONS TO BE APPROVED IN ADVANCE ****

Manufacturer and Model No. Offered

2.	Biological Safety Cabinet, BAKER SterilGARD SG400, or approved alternate, as per Technical Specifications	1	\$_____
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**** SUBSTITUTIONS TO BE APPROVED IN ADVANCE ****

Manufacturer and Model No. Offered

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Total Amount</u>
3.	Portable Steam Sterilizer (Autoclave), Yamato Sterilizer SM-52, or approved alternate, as per Technical Specifications	1	\$_____
	** SUBSTITUTIONS TO BE APPROVED IN ADVANCE **		
	Manufacturer and Model No. Offered _____		
4.	Inverted Light Microscope, Olympus CK-2, or approved alternate, as per Technical Specifications	1	\$_____
	** SUBSTITUTIONS TO BE APPROVED IN ADVANCE **		
	Manufacturer and Model No. Offered _____		
5.	Microcentrifuge, HERMLE Z233M with Covered Angle Rotor, HERMLE 233-59, or approved alternate, as per Technical Specifications	1	\$_____
	** SUBSTITUTIONS TO BE APPROVED IN ADVANCE **		
	Manufacturer and Model No. Offered _____		
6.	Laboratory Refrigerator, REVCO REL-2304A, or approved alternate, as per Technical Specifications	1	\$_____
	** SUBSTITUTIONS TO BE APPROVED IN ADVANCE **		
	Manufacturer and Model No. Offered _____		

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Total Amount</u>
7.	Low Speed Refrigerated Centrifuge, IEC 3122 (Model GP8R) with Windshielded Rotor IEC 218, or approved alternate, as per Technical Specifications	1	\$ <u> </u>

**** SUBSTITUTIONS TO BE APPROVED IN ADVANCE ****

Manufacturer and Model No. Offered

8.	Ultra-low Temperature Freezer, REVCO Ultima ULT1790-7A, or approved alternate, as per Technical Specifications	1	\$ <u> </u>
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**** SUBSTITUTIONS TO BE APPROVED IN ADVANCE ****

Manufacturer and Model No. Offered

Bid prices shall be f.o.b. destination, include all applicable taxes, and all costs involved for uncrating, setting in place and disposal of packing materials for Items 1, 2, 3, 6, 7, and 8.

Bidders need not bid on all items in order to be considered for award.

Multiple or alternate bids shall be allowed and will be treated equally.

TAX LIABILITY

Both out-of-state and Hawaii bidders are advised that the amount bid on this solicitation is subject to the general excise tax (currently 4%) imposed by Chapter 237, Hawaii Revised Statutes (HRS) and, if tangible property is being imported into the State of Hawaii for resale, the use tax (currently 1/2%) imposed by Chapter 238, HRS. (Refer to Tax Clearance in the Special Provisions and Taxes in the General Provisions.) Bidders are therefore cautioned to consider such taxes in formulating their bids since no adjustments to the prices bid shall be allowed.

<p>BIDDERS ARE CAUTIONED THAT THE SUBMITTAL OF VENDOR QUOTATION FORMS WITH ADDITIONAL TERMS AND CONDITIONS, OR TERMS THAT TAKE EXCEPTION TO THE STATED BID TERMS AND CONDITIONS, MAY BE GROUNDS FOR DISQUALIFICATION OF THEIR BID (SEE NOTE TO BIDDERS BELOW).</p>

BASIS FOR AWARD

Bidders are advised that the award of this contract is contingent upon availability of funds. If funds are unavailable, the University reserves the right not to make award of this contract.

The award of contract, if awarded, shall be made to the lowest responsive and responsible bidder on **EACH ITEM**.

SUBSTITUTIONS TO BE APPROVED IN ADVANCE

The manufacturer and model number are used in the Technical Specifications as a measure of quality, style, appearance, and performance.

Any brand or manufacture of equal or better quality to that specified will be considered for acceptance by the University upon submission of a written request for approval of the proposed substitution with manufacturer's literature or brochures containing technical data on the proposed items being offered.

Proposals for substitutions shall not be submitted unless the bidder has the proposed substitution items available for inspection by the University at the time of submittal of the request. Any requests for substitution of items shall be made at least SEVEN (7) calendar days prior to bid opening to permit inspection by the University, no later than 4:30 p.m., May 30, 1997.

The written request shall be submitted in the attached sample format "Request for Substitution."

The statement of variances must list all features of the proposed substitution which differ from the specifications and/or product specified and must further certify that the substitute has no other variant features.

Bidders shall send requests to the buyer, Suzanne Tanaka, Office of Procurement, Property and Risk Management, University of Hawaii, 1400 Lower Campus Road, Room 15, Honolulu, Hawaii 96822.

The University may at its discretion reject or deny any substitution that it deems unequal, and the findings in this regard shall be accepted by the bidders as final and binding.

A bid which includes a substitution shall be considered only if the substitution has been approved in advance by the University.

S A M P L E

Date: _____

Office of Procurement, Property
and Risk Management
University of Hawaii
1400 Lower Campus Road, Room 15
Honolulu, Hawaii 96822

To Whom It May Concern:

Subject: REQUEST FOR SUBSTITUTION

Project Title: _____

In accordance with the "SUBSTITUTIONS TO BE APPROVED IN ADVANCE" clause of the BID section, I hereby submit for substitution TWO (2) sets of technical brochures and statement of variances for your review and approval for the item(s) shown below:

<u>ITEM</u>	<u>SPECIFIED BRAND</u>	<u>SUBSTITUTE OR ALTERNATE BRAND</u>	<u>VARIANT FEATURES</u>
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I further certify that my request for substitution of the above item(s) has no other variant features.

Signature

Title

NOTE:

1. PLEASE USE OWN LETTERHEAD.
2. IF NO VARIANT FEATURE, INDICATE "NONE."

NOTE TO BIDDERS

An acceptable bid must conform in all material respects to this Invitation for Bids. Any of the following may be grounds for disqualification:

1. Taking exception to any of the specifications, terms or conditions contained in the IFB.
2. Placing conditions on the furnishing of solicited goods or services.
3. Inclusion of a quotation or order form containing additional specifications, terms or conditions.
4. Referencing external documents containing additional specifications, terms or conditions.

Bidders are advised that bids are evaluated as submitted and requests by bidders to delete conditions contained in their bids after bid opening cannot be considered.

REMITTANCE ADDRESS

In the event that the undersigned is awarded this contract and its remittance address differs from the address shown on page BID - 8, please indicate remittance address below:

Street Address or P. O. Box

City State Zip Code

OPPRM FORM 94
CERTIFICATION REGARDING DEBARMENT, SUSPENSION, PROPOSED DEBARMENT
AND OTHER RESPONSIBILITY MATTERS

(See Official Document)

SIGNATURE PAGE
(See Official Document)

CERTIFICATION FOR TAX CLEARANCE

RE: IFB No.: _____

Project/Title: _____

I certify that I have submitted a State and IRS tax clearance application (DOTAX Form A-6) by mail on _____, (date)
and have not received an original or certified copy at the time I submitted this offer.

Upon receipt of a tax clearance, I will immediately send an original or certified copy by mail to:

Office of Procurement, Property
and Risk Management
University of Hawaii
1400 Lower Campus Road, Room 15
Honolulu, Hawaii 96822

Signature (Original): _____

Printed Name: _____

Title: _____

Company Name: _____

Date: _____

TECHNICAL SPECIFICATIONS

This section indicates the Technical Specifications for the scientific equipment required. The Technical Specifications listed herein are the minimum requirements and are mandatory for an accepted bid.

ITEM 1: ONE (1) only, CO2 Incubator, FORMA 3210, or approved alternate, with the following specifications:

- a) Shall have automatic water-jacketed dual chamber for accurately and reliably maintaining a contamination free environment at desired temperatures and CO2 atmospheres for the study of neuronal and lymphoid cells requiring long-term culture.
- b) Minimum capacity for each chamber shall be 6.5 cubic feet.
- c) Shall have a microprocessor control/monitoring system with alpha-numeric message display for condition and function control, alarm conditions, LED display of temperature, CO2, RH and self test diagnostics. All controls shall be on the display panel.
- d) Shall have a factory installed dual pen (FORMA 201058, or approved alternate) 0-60°C, 115V/60Hz, 6", 7-day temperature recorder.
- e) Shall include non-volatile memory to retain setpoint and calibration values in case of power failure.
- f) Shall have a temperature range of +5°C above ambient to +55°C. Shall be capable of +/-0/1°C control and +/-0.2°C uniformity at +37°C. Sensor shall be internally located. Setability shall be 0.1°C. Shall be provided with voltage compensating independent electronic controller.
- g) CO2 control shall be automatic and better than +/-0.1%, utilizing internally located sensor; range shall be 0-20%.
- h) Shall be capable of ambient to 95% relative humidity at 37°C; uniformity shall be maintained with use of disposable external blower. Shall include removable, seamless stainless steel pan and have factory installed RH display (readable in 1% increments) with programmable low RH alarm (FORMA 190643 or approved alternate).
- i) Shall have audible/visual alarm/safety system:
 - (1) Over/under temperature alarm with automatic heater shutdown beyond setpoints,

- (2) Programmable tracking alarms for temperature ($\pm 2^{\circ}\text{C}$ above or below setpoints) and gas (1% above or below setpoint),
 - (3) Shall have remote alarm capability (jack contact provided).
- j) Shall have mirror finish, seamless stainless steel interior with 100% coved corners, autoclavable no-tool-required removable shelf supports and FIVE (5) shelves in each chamber (with total capacity for TWENTY-THREE [23] shelves per chamber). Dimensions shall be at least 21.4"W x 26.8"H x 20.0"F-B.
- k) Exterior shall be constructed of 18G, powder-coated, cold rolled, steel, with levelling feet; dimensions shall not exceed 24.8"W x 39.5"H x 27.0"F-B. Shall include roller base (FORMA 190647, or approved alternate) with dual-wheel swivel locking casters.
- l) Non-siphon water jacket drain shall be located at the bottom front with water jacket fill port at top front.
- m) All electronic components shall be located in a front, slide out drawer.
- n) Shall have 100% continuously HEPA-filtered air (return to 100% HEPA-filtered air within ONE (1) minute of door closure) and microbiological filters at gas inlet and sample port outlet.
- o) Shall have gasketed dual doors with convertible reversible swing:
- (1) Inner door shall be of dual paned glass, with clear, heat conducting film elements which are temperature programmable, shall have a door switch for automatic CO₂ and blower shutoff when opened; gasket shall be of removable, autoclavable silicone;
 - (2) Latch mechanism shall be located outside of chamber and doors shall have secure locking capability;
 - (3) Outer door shall be have magnetic vinyl gasket.
- p) Electrical requirements:
- (1) Shall operate at 115V, 90-125VAC, 50/60Hz, 1PH, 3.6FLA with 6A/2Pole circuit breaker;
 - (2) Shall have ONE (1) interiorly located 75W accessory outlet per chamber.
- q) Delivery shall include uncrating, setting in place, and removal and disposal of packing materials.

ITEM 2: ONE (1) only, Biological Safety Cabinet, BAKER sterilGARD SG400, or approved alternate, with the following specifications:

- a) Shall provide sterile work area for microbiological operations, as well as provide protection to personnel and environment from low to moderate risk biological agents.
- b) Shall be a Class II, Type A/B3 biological safety cabinet equipped with factory-tested, 99.99% efficient, supply and exhaust HEPA filters for filtration of particles greater and less than 0.3 microns in diameter (HEPA filters shall be front loading and changeable without changing the plenums).
- c) Contaminated air-containing plenums, ducts and sidewalls shall be of permanent metal construction and maintained under negative pressure or, if plenum contains contaminated air under positive pressure, it shall be completely surrounded by negative pressure areas.
- d) High velocity return air slots shall be located at each end of front access opening and at top/sides of viewscreen.
- e) A protective screen shall be provided under work surface to prevent paper and other light materials from being drawn into blower system. A perforated stainless steel plate shall be located at top of work area, below supply filter, to function as a zoned air diffuser/filter protector.
- f) Interior work area shall have recessed surface of 16G stainless steel and be 46"W x 14 3/4"D x 29 3/8"H, contain TWO (2) duplex electrical outlets with drip proof covers and circuit breakers, ONE (1) externally mounted fluorescent light, ONE (1) germicidal ultraviolet light, THREE (3) petcocks (gas, air, vacuum) and stainless steel ball valve for drain pan. Side and rear walls shall be ONE (1) piece seamless stainless steel with rounded corners. Airfoil at front of work area shall be provided.
- g) Viewscreen shall be vertically sliding 1/4" safety plate glass, openable to a height of 19", and shall be capable of being fully closed for system shut down. Further, an audible alarm shall be provided to sound when the opening is greater than 8" high (proper operating height). Ambient air intake velocity shall be 100-110fpm.

- h) Cabinet shall be free standing with adjustable levelers and removable telescoping adjustable legs (capable of 30" to 36" work surface height) and be equipped with a magnetic gauge. Exterior shall be 18G cold rolled steel with baked enamel finish. Overall outer dimensions when legs are fully extended shall be 95 1/8"H x 33 1/2"F-B x 55 3/16"W. Shipping dimensions shall not exceed 74 7/8"H x 33 1/2"F-B x 55 3/16"W.
- i) A speed controller shall automatically compensate for line voltage changes providing constant voltage to the blower/motor to assure steady air flow for personnel protection and against product loss. Speed controller shall also automatically provide for 80% minimum increase in filter loading resulting in not more than 10% decrease in total air delivery. Up to 165% increase shall be attainable. An adjustable damper shall be provided to further compensate for differences in resistance of filters.
- j) The following manufacturer's test results shall be provided:
 - (1) Certified copy of personnel, product and cross-contamination tests equivalent or exceeding NSF Standard #49 for ONE (2) unit from the same production run;
 - (2) Dated biological test data using NSF Standard #49 NCI/NIH containment test successfully conducted within 3" of each sidewall and at center of cabinet;
 - (3) Biological test data defining airflow boundaries for adequate performance;
 - (4) Underwriters Laboratory (UL) certification for entire unit for electrical safety and integrity;
 - (5) NSF Standard #49 performance standard requirements of NIH03-112C;
 - (6) Test data for filter loading/air delivery;
 - (7) Test results to assure Class II requirements met prior to shipping.
- k) Electrical requirements: 115V - single phase - 60 Hz with 20A plug, single power cord, total running load of 17.4A.
- l) Delivery shall include uncrating, setting in place, and removal and disposal of packing materials.

ITEM 3: ONE (1) only, Portable Steam Sterilizer (Autoclave), Yamato Sterilizer SM-52, or approved alternate, with the following specifications:

- a) Shall be fully automated, with dry cycle, for decontamination of infectious materials and waste.
- b) Shall have a minimum capacity of 1.8 cu. ft. or 51 liters.
- c) Shall have a temperature range of 115°C to 128°C for sterilization, and 150°C to 180° for drying.
- d) Shall be capable of variable cycles from one minute to ninety-nine hours; timer shall begin when selected temperature has been reached.
- e) Shall be capable of 22.8 psi pressure.
- f) Shall be top loading with stainless steel door and have a stainless steel mesh basket with adjustable shelf (Yamato 241094 or approved alternate).
- g) Shall have casters and be entirely mobile.
- h) Shall not require plumbing.
- i) Interior shall be 18-8 stainless steel.
- j) Exterior shall be cold rolled carbon steel with a baked resin finish.
- k) Interior dimensions shall measure a minimum of 11.8" diameter x 25.8" deep.
- l) Exterior dimensions shall not exceed 17.3"W x 20.9"F-B x 42.5"H.
- m) Shall have a programmable microprocessor with battery back-up and retain programs for sterilizer and dryer temperatures as well as for timer cycles.
- n) Shall have keypad LED digital display for set and actual temperature, set and time remaining, pressure gauge, cycle mode selector and indicator, power key, run/stop key.
- o) Shall have audio/visual self diagnostics for circuit breaker, safety pressure release valve, low water cut-off, temperature sensor malfunction, over temperature heater cut-off.
- p) Electrical requirements: 208V, 60 Hz, 13.0A.

- g) Delivery shall include uncrating, setting in place, and removal and disposal of packing materials.

ITEM 4: ONE (1) only, Inverted Light Microscope, Olympus CK-2, or approved alternate, with the following specifications:

- a) Shall be fully assembled and ready for use upon delivery.
- b) Shall be used to monitor Cytolysis, Syncytium formation and other Cytopathology in primary cell cultures and in continuous cell lines used in the isolation and characterization of viruses.
- c) Stand shall have a built-in continuously variable 6V 20W transformer.
- d) Shall include a fixed plain stage, stage clips and 35mm Petri dish holder, as well as a mechanical stage with movable X and Y axes and adapters for
 - (1) Terasaki plates and 65mm diameter petri dishes and
 - (2) 1" x 3" slides and 54mm diameter petri dishes.
- e) Shall have a rotating nosepiece.
- f) Shall have a lamp house with daylight filter and TWO
 - (2) 6V 20W bulbs, power cord and plastic dustcover.
- g) Condenser shall be a detachable extra long working distance (wd) condenser with coarse and fine focus.
- h) Binocular observation tube shall be inclined and have 10X widefield high eyepoint eyepiece (f.n. 20).
- i) Objectives shall have 4X and 10X D achromat flatfield objectives (W.D. 18.23mm and 7.18mm) and 20X long working distance CD achromat objective (W.D. 5.40mm).
- j) Shall be anti-fungally treated by the manufacturer.
- k) Dimensions shall be 7.9"W x 13.4"D x 18.5"H.
- l) Electrical requirements: 120VAC

ITEM 5: ONE (1) only, Microcentrifuge, HERMLE Z233M, with Covered Angle Rotor for 24 x 1.5/2.0cc Tubes, HERMLE 233-59, or approved alternate, with the following specifications:

- a) Shall be capable of accommodating small volumes of samples for high speed clarification of tissue homogenates and nucleic acid extraction.

- b) Shall be capable of 13,500 rpm or rcf (g-value) of 17,310 x g.
- c) Shall be capable of spinning 500 microliter tubes with or without an adapter plate and shall accept other configuration fixed angle covered rotors accommodating other tube sizes with or without adapter plates.
- d) Shall be provided with a 24 place 40° fixed angle covered rotor for 1.5/2.0cc tubes (HERMLE 233-59 or approved alternate) without adapter plates (rotor cover shall be snapped on or off using one hand).
- e) Shall have microprocessor controlled membrane key pad for variable speed selection (in 10 rpm increments), rcf display, fast or slow acceleration/deceleration which shall be digitally displayed via LED.
- f) Shall have a variable timer capable of setting runs between 1 and 99 minutes, have a hold position for continuous operation (with time remaining displayed) and momentary button for quick runs (few seconds to 1 minute) to be held down as long as required (with elapsed seconds displayed).
- g) Chamber temperature shall be maintained near ambient during long runs by continuous air flow. Shall have a separate fan for cooling.
- h) Shall have brushless induction drive.
- i) External dimensions shall be no larger than 11"W x 10 1/4"H x 14 1/2"F-B.
- j) Electrical requirements: 120V/50-60 Hz.

ITEM 6: ONE (1) only, Laboratory Refrigerator, REVCO REL-2304A, or approved alternate, with the following specifications:

- a) Shall be a 22.5 cubic feet (637 liters) upright model for storing of biological reagents.
- b) Shall have adjustable temperature control range of +1°C to +8°C (factory preset at +4°C).
- c) Temperature display shall be digital with resolution to within 0.1°C.
- d) Shall have factory installed 6" circular chart, seven-day drive, single pen panel mounted temperature recorder (REVCO 6171 or approved alternate).

- e) Temperature uniformity at all shelf levels shall be maintained with the use of positive forced air circulation. Further, directional airflow shall be used for quick temperature recovery after door openings.
- f) Shall have main power indicator light and key operated on/off switch.
- g) Shall be insulated with high-density CFC-free poured in place urethane foam.
- h) Single solid door shall be spring loaded to close against nonporous gasket, have a full length handle and be key lockable.
- i) Outer cabinet shall be corrosion-resistant with acrylic finish. Interior shall have a seamless lining with door activated light. Shall have levelling feet and FOUR (4) 2" diameter dual-wheeled casters.
- j) Shall have FOUR (4) zinc plated open wire shelves. Shelf placement shall be adjustable in 1" increments, without the use of tools.
- k) Shall have insulated, heavy duty, industrial grade, hermetically sealed compressor with automatic defrost cycle and no drain-line required automatic condensate removal.
- l) Interior dimensions shall be a minimum of 56.5"H x 29"F-B x 24"W (143.5cmH x 73.6cmF-B x 60.9cmW).
- m) Exterior dimensions shall be a maximum of 76.5"H x 35.12"F-B x 28"W (194.3cmH x 89.1cmF-B x 71.1cmW).
- n) Electrical requirements: 115V, 60 Hz, 7.1/15 Amps.
- o) Delivery shall include uncrating, setting in place, and removal and disposal of packing materials.

ITEM 7: ONE (1) only, Low Speed Refrigerated Centrifuge, IEC 3122 (Model GP8R) with Windshilded Rotor, IEC 218, or approved alternate, with the following specifications:

- a) Shall be capable of speeds to 6000 rpm and capable of accommodating small and large volumes of samples for low speed clarification of tissue honogenates and separation of cells.

- b) Shall be capable of producing speed/force to maximum of 5600rpm/4550rcf with windshielded swinging bucket rotor and be capable of switching from rpm to g-force display. Direct g-force (rcf) control shall be provided utilizing rotor identification feature.
- c) Shall be capable of speeds of 500-5600 rpm in 10 and 100 rpm increments and force of 50-4550xg in 1xg, 10xg, and 100xg increments.
- d) Shall have a minimum of FIVE (5) acceleration speeds, and SIX (6) deceleration speeds.
- e) Shall have spin duration of ONE (1) minute in ONE (1) second increments. 1-5 minutes in 15 second increments and 5-360 minutes in 1 minute increments and be capable of 0.1 second repeatability.
- f) Shall be capable of maintaining -5°C to +40°C, settable in 1°C increments with +/-1°C (4°C to ambient range) repeatability.
- g) Refrigeration shall be provided by sealed 1/2hp compressor with wrap-around cooling coils (NOT refrigerated air) capable of maintaining 2°C at full speed and CFC-free refrigerant (R22).
- h) Swinging bucket rotor shall be sealed with transparent cover for aerosol containment (IEC 218 [windshielded rotor] or approved alternate) and be equipped with FOUR (4) sealed buckets (IEC 3218 or approved alternate). Entire rotor shall be autoclavable. Buckets shall be provided with the following adapters:
 - (1) FOUR (4) adapters for 50cc conical bottom screw cap tubes (IEC 5805 or approved alternate),
 - (2) FOUR (4) adapters for 16 x 100 - 150 vacutainer tubes (IEC 5719 or approved alternate),
 - (3) FOUR (4) adapters for 15cc conical screw cap tubes (IEC 5712 or approved alternate),
 - (4) EIGHT (8) adapter handles (short type for 3218) (IEC 47069 or approved alternate).
- i) Shall have membrane control panel with digital display, internal memory for storage of 35 run parameters, audible/visual status indicator, self diagnostic codes and error messages.
- j) Shall have fail-safe cover interlock.
- k) External dimensions shall be a maximum of 30"W x 24"F-B x 17"H.

- l) Electrical requirements: 120V, 60/60Hz, 10A.
- m) Delivery shall include uncrating, setting in place, and removal and disposal of packing materials.

ITEM 8: ONE (1) only, Ultra-Low Temperature Freezer, REVCO ULT1790-7A, or approved alternate, with the following specifications:

- a) Shall be capable of maintaining temperatures of -80°C to store animal and human tissues and biologically labile reagents.
- b) Shall be chest type with operating temperature range of -20°C to -86°C.
- c) Shall have a minimum capacity of 17.1 cu. ft.
- d) Interior dimensions shall be a minimum of 58.8"W x 19"F-B x 26.5"H.
- e) Exterior dimensions shall be a maximum of 83.8"W x 29"F-B x 41"H.
- f) Shall be equipped with 2 3/4hp hermetically sealed compressors with sound insulation.
- g) Shall be equipped with built-in voltage booster to detect/respond to low voltage conditions, and surge protector.
- h) Shall have microprocessor touchpad control:
 - (1) To set/adjust operating temperature,
 - (2) To set high/low limit alarm setpoints in 1°C increments,
 - (3) To test alarm system.
- i) Microprocessor display shall be digital with the following monitoring capabilities:
 - (1) Power failure/temperature deviation,
 - (2) Actual line voltage and voltage booster activation,
 - (3) Battery reserve/charging capacity for alarm system back-up in case of power failure,
 - (4) Airflow across the condenser intake filter, indicate when cleaning required (filter shall be washable with no tools necessary for removal or reinstallation),
 - (5) Surge suppressor fuse intercept corruption.

- j) Shall have RS-232 (or approved alternate) data port with system software and exterior contacts for remote monitoring and data collection.
- k) In addition to visual display of alarms and parameters, an audible alarm shall sound in case of power failure or temperature deviation. Audible alarm shall have silence/ring back capability.
- l) Main power and alarm system shall be key operated.
- m) Cabinet shall be constructed of cold rolled steel with baked epoxy coated exterior finish. Shall have a built-in 1" access port and dual wheel casters.
- n) Shall utilize CFC-free refrigerant.
- o) Cabinet insulation shall be 5" poured-in-place CFC-free urethane.
- p) Shall have counterbalanced lids with independent double gasket door seals. Sub lids shall be provided with positive open/positive close keyed-lock cam latch and full-length handle.
- q) Shall have factory installed panel mounted 6" seven-day temperature recorder with pressure sensitive non-inked pen (REVCO 6171 or approved alternate).
- r) Shall be capable of accepting either factory or field installed CO2 or liquid nitrogen backup systems.
- s) Electrical requirements: 115VAC, 60Hz, single phase, 24.0A/30A breaker.
- t) Shall meet UL and CSA design and construction requirements for safety and performance.
- u) Temperature performance shall be guaranteed in +90°F ambient conditions.
- v) Delivery shall include uncrating, setting in place, and removal and disposal of packing materials.

All questions pertaining to the Technical Specifications shall be directed to Dr. Richard Yanagihara, Director, Retrovirology Research Laboratory, telephone (808) 732-7702.

Bidders are cautioned to review the Technical Specifications carefully and thoroughly. Objections to or requests for clarification of the specifications shall be made in writing in accordance with the General Provisions to the Office of Procurement, Property and Risk Management prior to the submittal of a bid. The submittal of a bid shall be considered as acceptance of the specifications as published.

SPECIAL PROVISIONS

1. SCOPE

The Furnishing and Delivery of Scientific Equipment for Pacific Biomedical Research Center, University of Hawaii at Manoa, Honolulu, Hawaii, shall be in accordance with the terms and conditions of IFB No. 97-120 and the General Provisions dated **February 23, 1996**, included by reference. Copies of the General Provisions are available at the Office of Procurement, Property and Risk Management, University of Hawaii, 1400 Lower Campus Road, Room 15, Honolulu, Hawaii 96822 or the General Provisions may be viewed at: <http://www.state.hi.us/bids/notice03.htm>

2. TECHNICAL REPRESENTATIVE OF THE PROCUREMENT OFFICER (TRPO)

The Technical Representative of the Procurement Officer is Dr. Richard Yanagihara, Director, Retrovirology Research Laboratory, telephone (808) 732-7702.

3. BRAND NAME OR EQUAL

The brand name and model number(s) mentioned are used in this specification as a measure of quality and performance. Any brand or manufacture of equal or better quality and performance than that specified will be considered for acceptance by the University. However, the University reserves the right to reject and deny any substitution that it may, in its discretion, deem unequal, and the findings in this regard shall be accepted by the bidder as final and binding.

4. MANUALS AND INSTRUCTIONS

The Contractor shall provide the University with operating and maintenance manuals for each piece of equipment furnished under this contract.

5. DELIVERY

Prior to delivery, the Contractor shall contact the Technical Representative to coordinate delivery of the equipment.

6. MAINTENANCE

Maintenance and spare parts shall be available locally. All maintenance services must be prompt and effective and shall be performed by qualified servicemen.

7. WARRANTY

The equipment furnished shall be new and as specified. The Contractor shall warrant that all workmanship and materials of equipment furnished under this contract shall be guaranteed as follows:

- Item 1: CO2 Incubator: Shall have a minimum ONE (1)-year warranty on parts and labor, a minimum FIVE (5)-year warranty on CO2 gas sensor, and a lifetime warranty for construction and integrity of water jacket chamber. On-island warranty and repair service shall be available and provided.
- Item 2: Biological Safety Cabinet: Shall provide a minimum THREE (3)-year warranty against defects in material and workmanship. On-island warranty and repair services shall be available and provided.
- Item 3: Portable Steam Sterilizer (Autoclave): Shall provide a minimum ONE (1)-year warranty for parts and labor. On-island warranty and repair services shall be available and provided.
- Item 4: Inverted Light Microscope: Shall provide a minimum FIVE (5)-year limited warranty. On-island warranty and repair service shall be available and provided.
- Item 5: Microcentrifuge: Shall provide a minimum ONE (1)-year warranty on parts and labor. On-island warranty and repair service shall be available and provided.
- Item 6: Laboratory Refrigerator: Shall provide a minimum THIRTEEN (13)-month warranty. Warranty shall cover repair or replacement, at no cost to the University, for parts, service labor, and shipping/cartage fees. On-island warranty and repair service shall be available and provided.
- Item 7: Low Speed Refrigerated Centrifuge: Shall provide a minimum ONE (1)-year warranty on parts and labor. On-island warranty and repair services shall be available and provided.
- Item 8: Ultra-low Temperature Freezer: Shall have a minimum THIRTEEN (13)-month warranty on parts and labor. Minimum FIVE (5)-year warranty on compressors. On-island warranty and repair service shall be available and provided.

8. LIQUIDATED DAMAGES

It is mutually understood and agreed by and between the parties hereto that in case of failure on the part of the Contractor to provide the services as agreed, the University will be damaged thereby and the amount of said damages, agreed upon and fixed at the sum of ONE HUNDRED DOLLARS (\$100.00) per consecutive calendar day; and the Contractor hereby agrees to pay to the University as liquidated damages and not by way of penalty, such total sum as shall be due for such delay as aforesaid. The findings of the University shall be accepted by the parties hereto as final; but, any allowance of time and remission of charges shall, in no other manner, affect the rights and obligations of the parties under this contract.

9. PAYMENT

The Contractor shall be remunerated upon submission of a properly executed original invoice and one copy, indicating the contract number, to Pacific Biomedical Research Center, 1993 East West Road, Honolulu, Hawaii 96822, no later than THIRTY (30) calendar days following submission of invoice or the acceptance of goods.

10. FEDERAL FUNDS

It is covenanted and agreed by and between the parties hereto that, as to the portion of the obligation under this contract to be payable out of federal funds, this contract shall be construed to be an agreement to pay such portion to the Contractor only out of federal funds to be received from the federal government when the federal funds are so received and shall not be construed as a general agreement to pay such portion at all events out of any funds other than those which are received from the federal government.

11. FEDERAL PROVISIONS

Since federal funds will be expended under this contract, the Contractor shall comply with the applicable provisions of the attached FEDERAL PROVISIONS. If the total bid amount is equal to or in excess of \$25,000, the bidder must complete the Certification Regarding Debarment, Suspension, Proposed Debarment, and Other Responsibility Matters (OPPRM FORM 94).

12. PATENTED ARTICLE

General Provision 5.2 entitled Patented Article, is hereby deleted and shall be replaced by the following:

PATENTED DEVICES, MATERIALS AND PROCESSES

If the Contractor is required or desires to use any design, device, material, or process covered by letters of patent or copyright, the right for such use shall be procured by the Contractor from the patentee or owner. The Contractor and surety shall indemnify and save harmless the University of Hawaii, and affected third party, from any and all claims for infringement by reason of the use of any such patented design, device, material or process, or any trademark or copyright in connection with the work to be performed under the contract, and shall reimburse the University of Hawaii for any costs, expenses, and damages which it may be obligated to pay by reason of any such infringement at any time during the prosecution or after the completion of the work.

13. TAX CLEARANCE FOR CONTRACTS

In accordance with Section 103-53, HRS, bidders shall submit with their bid packages, original tax clearances from the State of Hawaii Department of Taxation and the Internal Revenue Service. In the event bidders are unable to obtain a tax clearance by mail in time to include it with their bid packages, bidders may submit a completed OPPRM Form 128, CERTIFICATION FOR TAX CLEARANCE, in place of the DOTAX Form A-6, with their bid packages. However, an original tax clearance must be provided before contract award. Tax clearances obtained shall certify that all tax returns due have been filed, and all taxes, interest, and penalties levied or accrued under the provisions of Title 14 that are administered by the State of Hawaii Department of Taxation and under the Internal Revenue Code against the bidder, have been paid. This shall apply to all contracts, whether with Hawaii bidders, out-of-state bidders, or nonprofit organizations.

This shall not apply to bidders if the State of Hawaii Department of Taxation certifies that the bidder is in good standing under a plan in which delinquent taxes are being paid to the State of Hawaii Department of Taxation (and the Internal Revenue Service, if applicable) in installments.

Offers that are not accompanied by original tax clearances or OPPRM Form 128, CERTIFICATION FOR TAX CLEARANCE, may be considered as non-responsive and may be rejected.

Any questions pertaining to tax clearances may be addressed to the following:

- a. Internal Revenue Service, Compliance Division - LTC
300 Ala Moana Boulevard, #50089
Honolulu, Hawaii 96850-4922
Telephone No.: (808) 541-1160

b. Department of Taxation
State of Hawaii
Oahu District Office
P.O. Box 259
Honolulu, Hawaii 96808-0259
Telephone No.: (808) 587-4242
Toll-Free: 1-800-222-3229

14. TAX CLEARANCE FOR FINAL PAYMENT

General Provision 7.2 entitled Tax Clearance, is hereby deleted and shall be replaced by the following:

TAX CLEARANCE FOR FINAL PAYMENT

In accordance with Section 103-53, HRS, final payment for the settlement of the contract will not be made by the University until the Contractor has submitted to the University original tax clearances from the State of Hawaii Department of Taxation and the Internal Revenue Service. Tax clearance shall certify that all tax returns due have been filed, and all taxes, interest, and penalties levied or accrued under the provisions of Title 14 that are administered by the State of Hawaii Department of Taxation and under the Internal Revenue Code against the Contractor have been paid.

Notwithstanding Sections 40-57 and 40-58, HRS, if a Contractor fails to provide the original tax clearances within SIX (6) months of the notice of final settlement or completion date of the contract, the University shall assign the final settlement payment in an amount not to exceed the tax liability to the State of Hawaii Department of Taxation or Internal Revenue Service, provided that the State of Hawaii Department of Taxation may first offset its tax debt against the sum owed to the Contractor. This shall apply to all contracts whether with Hawaii vendors, out-of-state vendors, or nonprofit organizations.

The foregoing shall not apply to the Contractor if the State of Hawaii Department of Taxation certifies that the Contractor is in good standing under a plan in which delinquent taxes are being paid to the State of Hawaii Department of Taxation (and the Internal Revenue Service, if applicable) in installments.

Any questions pertaining to tax clearances may be addressed to the following:

a. Internal Revenue Service, Compliance Division - LTC
300 Ala Moana Boulevard, #50089
Honolulu, Hawaii 96850-4922
Telephone No.: (808) 541-1160

b. Department of Taxation
State of Hawaii
Oahu District Office
P.O. Box 259
Honolulu, Hawaii 96808-0259
Telephone No.: (808) 587-4242
Toll-Free: 1-800-222-3229

FEDERAL PROVISIONS

(See Official Document)